

WHAT IS CLAIMED IS:

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1. A disc changer for use in a disc player, said disc changer including a disc storing means for storing a plurality of discs arranged in a predetermined direction, a disc drawing means for drawing a selected disc from the disc storing means to a reproducing position within the disc player, a transporting means for transporting the disc drawing means in the disc arrangement direction, so that the selected disc drawn from the disc storing means can be reproduced in the reproducing position.

wherein the transporting means comprises moving member(s) driven by a motor so as to be movable in a direction perpendicular to the disc arrangement direction, in a manner such that with the movement of the moving member(s), the disc drawing means can be moved to a height corresponding to a position of the selected disc;

wherein a plurality of disc draw-out preventing elements are arranged in the disc arrangement direction corresponding to a plurality of discs stored in the disc storing means, each disc draw-out preventing element is adapted to be in either a disc draw-out preventing position or a released position;

wherein the moving member has releasing portion(s) capable of positioning one disc draw-out preventing element at a released position, said disc draw-out preventing element

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being located at a height of a selected disc at which the disc drawing means has arrived.

6. A disc changer for use in a disc player, said disc changer including a disc storing means for storing a plurality of discs arranged in a predetermined direction, a disc drawing means for drawing a selected disc from the disc storing means to a reproducing position within the disc player, a transporting means for transporting the disc drawing means in the disc arrangement direction, so that the selected disc drawn from the disc storing means can be reproduced in the reproducing position.

wherein the transporting means comprises moving member(s) driven by a motor so as to be movable in a direction perpendicular to the disc arrangement direction, in a manner such that with the movement of the moving member(s), the disc drawing means can be moved to a height corresponding to a position of the selected disc;

wherein a plurality of disc movement preventing elements are arranged in the disc arrangement direction corresponding to a plurality of discs stored in the disc storing means, each disc movement preventing element is adapted to be in either a disc movement preventing position or a released position, and is normally urged so as to be located at a released position;

wherein each of the disc movement preventing elements has

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a pressing portion adapted to be pressed by the moving member, so that each disc movement preventing element can be located in a disc movement preventing position by allowing its pressing portion to be pressed by the moving member;

wherein the moving member is formed with a plurality of holes each of which is allowed to receive the pressing portion of a disc movement preventing element, each of the holes being so formed that when the disc drawing means has reached a position corresponding to the selected disc, the pressing portion of a disc movement preventing element at a height corresponding to the selected disc can enter the hole;

wherein each of the disc movement preventing elements will be located at a released position once the pressing portion of the disc movement preventing element enter one of said holes.

7. A disc changer for use in a disc player, said disc changer including a tray storing means for storing a plurality of trays (each mounting a disc) arranged in a predetermined direction, a tray drawing means for drawing a selected tray (mounting a selected disc) from the tray storing means to a reproducing position within the disc player, a transporting means for transporting the tray drawing means along the tray arrangement direction, so that the selected disc mounted on the tray drawn from the tray storing means can be reproduced in the reproducing position.

wherein the transporting means comprises moving member(s) driven by a motor so as to be movable in a direction perpendicular to the tray arrangement direction, in a manner such that with the movement of the moving member(s), the tray drawing means can be moved to a height corresponding to a position of the selected tray;

wherein a plurality of tray movement preventing elements are arranged in the tray arrangement direction corresponding to a plurality of trays stored in the tray storing means, each tray movement preventing element is adapted to be in either a tray movement preventing position or a released position, and is normally urged so as to be located at a released position;

wherein each of the tray movement preventing elements has a pressing portion adapted to be pressed by the moving member, so that each tray movement preventing element can be located in a tray movement preventing position by allowing its pressing portion to be pressed by the moving member;

wherein the moving member is formed with a plurality of holes each of which is allowed to receive the pressing portion of a tray movement preventing element, each of the holes being so formed that when the tray drawing means has reached a position corresponding to the selected tray, the pressing portion of a tray movement preventing element at a height corresponding to the selected tray can enter the hole;

wherein each of the tray movement preventing elements

will be located at a released position once the pressing portion of the tray movement preventing element enter one of said holes.

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1. A disc changer according to claim 7, wherein after the moving member is moved to a desired position, said moving member is further moved so as to urge the tray movement preventing element in a predetermined direction, thereby pressing the tray by virtue of the tray movement preventing element which has obtained an urging force.

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